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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/586,041	07/13/2006	Johannes Arnoldus Jansen	207,623	9317
	7590 02/24/201 RAYNE & SCHWAB	0	EXAMINER	
666 THIRD AV	ENUE, 10TH FLOOR		BOWMAN, ANDREW J	
NEW YORK, NY 10017			ART UNIT	PAPER NUMBER
			1792	
			MAIL DATE	DELIVERY MODE
			02/24/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/586,041	JANSEN ET AL.		
Office Action Summary	Examiner	Art Unit		
	ANDREW BOWMAN	1792		
The MAILING DATE of this communication a	ppears on the cover sheet with the	correspondence address		
Period for Reply	LVIC OFT TO EVEIDE AMONT	VOLOR THURTY (20) DAYO		
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perion. - Failure to reply within the set or extended period for reply will, by statu. Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION I.136(a). In no event, however, may a reply be divided will apply and will expire SIX (6) MONTHS froute, cause the application to become ABANDON	DN. timely filed m the mailing date of this communication. NED (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on <u>09</u> 2a) This action is FINAL . 2b) Th 3) Since this application is in condition for allow closed in accordance with the practice under	is action is non-final. ance except for formal matters, p			
Disposition of Claims				
4) ☐ Claim(s) 1-15 is/are pending in the application 4a) Of the above claim(s) 9-12,14 and 15 is/a 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-8 and 13 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	re withdrawn from consideration.			
Application Papers				
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) as Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Replacement of the second secon	ecepted or b) objected to by the e drawing(s) be held in abeyance. S ection is required if the drawing(s) is c	ee 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.				
Attachment(s)	0 There is 0	m. (DTO 442)		
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 	4)	Date		

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DETAILED ACTION

Claims 1-15 remain pending with claims 9-12, 14, and 15 being withdrawn.

Response to Arguments

1. Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 3. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to

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consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

- 4. Claims 1, 2, and 4-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cotell et al. (WO 04/22513).
- 1. Regarding claims 1, 2, and 4-7, Cotell teaches that it is known to provide polymeric materials (claim 13) with an amorphous calcium phosphate coating (claim 5 and pg. 14, lines 20-27) while simultaneously crystallizing the laser deposited (pg. 7, lines 10-16) coating using a fluorine-containing compound based laser (pg. 14, line 36 though pg. 15, line2), wherein the energy of the laser is 1-500 mJ/cm² (pg. 14, line 20 through pg. 15, line 2). Cotell fails to teach the use of a fluorine laser. However, Cotell does teach that in general, the wavelength of the laser is known to affect the porosity of the deposited film (pg. 11, lines 26-32). Therefore in the absence of criticality of the specific wavelength of the fluorine laser of the current claims, one of ordinary skill in the art would be motivated to optimize the wavelength of the laser (and as pointed out by the applicant, each type of laser has its own known wavelength, therefore leading one to choose a specific laser based on its own individual desired wavelength) used in the process of Cotell in order to achieve the desired porosity. Further it should be noted that the wavelength of fluorine lasers was know prior to the filing of the current claims.
- 2. Regarding claim 8, it is the position of the examiner that the position of the laser of Cotell would be controlled (i.e. it would not just be placed at random) and the process of Cotell would inherently create a "pattern of crystallization".

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3. Claims 3 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cotell et al. (WO 04/22513) in view of Li et al. (USPGPub 2002/0156529).

a. Regarding claims 3 and 13, the teachings of Cotell are as shown above. Cotell fails to teach wherein the substrate consists of one of the materials listed in the claims. However, Li shows that it is well-known to deposit similar calcium/phosphorus type coatings (paragraph [0053]) on polyethylene (paragraph [0057]). One of ordinary skill in the art would be motivated to use the polyethylene of Li in the invention of Cotell because Li shows that polyethylene is a suitable material for the same types of coating to be used inside the body for similar purposes. Further, it is the position of the examiner that based on the methodologies of Cotell and the known chemical and physical properties of polyethylene, one of ordinary skill in the art would expect a very high degree of success from such a combination.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ANDREW BOWMAN whose telephone number is (571)270-5342. The examiner can normally be reached on Monday through Friday (7:30 to5:00)EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Barr can be reached on 571-272-1414. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Michael Barr/ Supervisory Patent Examiner, Art Unit 1792 Andrew J Bowman Examiner Art Unit 1792
